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Substitute for form 1449A/PTO

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Sheet	1	of	1
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Application Number	Not Yet Assigned 10/561,448
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Filing Date	Concurrently Herewith
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First Named Inventor	Shimon WEISS
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Group Art Unit	Not Yet Assigned	2877
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Examiner Name	Not Yet Assigned
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Attorney Docket Number	58086-226455
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/F. L. Evans/

11/21/2007

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Application Number	10/561,448-Conf. #8178	
			Filing Date	December 20, 2005	
			First Named Inventor	Shimon Weiss	
			Art Unit	2877	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	5	Attorney Docket Number	58086-226455

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/FLE/	AA	US-6,200,818	3/13/2001	Eigen et al.	
	AB	US-5,933,233	8/3/1999	Gunther	
	AC	US-5,807,677	9/15/1998	Eigen et al.	
	AD	US-6,498,017	12/24/2002	Riesner et al.	
	AE	US-6,556,296	4/29/2003	Palo	
	AF	US-6,376,843	4/23/2002	Palo	
	AG	US-6,515,289	2/4/2003	Kask	
	AH	US-6,407,856	6/18/2002	Kask et al.	
	AI	US-6,122,098	9/19/2000	Kask et al.	
	AJ	US-6,208,815	3/27/2001	Seidel et al.	
	AK	US-6,137,584	10/24/2000	Seidel	
/FLE/	AL	US-6,140,048	10/31/2000	Muller et al.	

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
/FLE/	CA	Adams, S.R., et al., New Biarsenical Ligands and Tetracysteine Motifs for Protein Labeling in Vitro and in Vivo: Synthesis and Biological Applications. J. Am. Chem. Soc., 2002. 124(21): p. 6063-6076.		
	CB	Beliaev, A.S., et al., Gene and Protein Expression Profiles of Shewanella oneidensis during Anaerobic Growth with Different Electron Acceptors. OMICS, 2002. 6(1): p. 39-60.		
	CC	Bewley, C.A., A.M. Gronenborn, and G.M. Clore, MINOR GROOVE-BINDING ARCHITECTURAL PROTEINS: Structure, Function, and DNA Recognition. Annual Review of Biophysics and Biomolecular Structure, 1998. 27(1): p. 105-131.		
	CD	Bruchez, M., Jr., Moronne, M., Gin, P., Weiss, S. and Alivisatos, A.P. (1998) Science 281, 2013-6.		
	CE	Chen, Y., Müller, J.D., So, P.T. and Gratton, E. (1999) Biophysical Journal 77, 553-67.		
/FLE/	CF	Chen, Y., Müller, J.D., Tetin, S.Y., Tyner, J.D. and Gratton, E. (2000) Biophysical		



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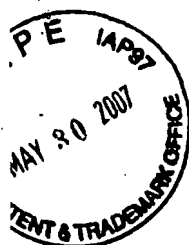
		Journal 79,1074-1084.	
/FLE/	CG	Clegg, R.M. (1992) Methods Enzymol 211, 353-88.	
	CH	Dahan, M., Deniz, A.A. Ha, T., Chemla, D.S., Schultz, P.G. and Weiss, S. (1999) Chemical Physics 247, 85-106.	
	CI	Delneri, D., Brancia, F.L. and Oliver, S.G. (2001) Curr Opin Biotechnol 12, 87-91.	
	CJ	Deniz, A.A. et al. (2000) Proc Natl Acad Sci U S A 97, 5179-84.	
	CK	Deniz, A.A., Dahan, M., Grunwell, J.R., Ha, T., Faulhaber, A.E., Chemla, D.S., Weiss, S. and Schultz, P.G. (1999) Proceedings of the National Academy of Sciences of the United States of America 96, 3670-5.	
	CL	Eggeling, C., Fries, J.R., Brand, L., Günther, R and Seidel, C.A. (1998) Proceedings of the National Academy of Sciences of the United States of America 95, 1556-61.	
	CM	Eggeling, C., Widengren, J., Rigler, R and Seidel, C.A.M. (1998) Anal chem 70, 2651-2659.	
	CN	Feldhaus, M., et al., Flow-cytometric isolation of human antibodies from a nonimmune Saccharomyces cerevisiae surface display library. Nat Biotechnol., 2003. 21(2): p. 163-70.	
	CO	Fries, J.R., Brand, L., Eggeling, C., Köllner, M. and Seidel, C.A.M. (1998) Journal of Physical Chemistry a 102, 6601-6613.	
	CP	Giometti CS, K.T., Tollaksen SL, Tsapin A, Zhu W, Yates JR 3rd, Nealson KH., Analysis of the Shewanella oneidensis proteome by two-dimensional gel electrophoresis under nondenaturing conditions. Proteomics, 2003. 3(5): p. 777-85.	
	CQ	Ha, T., Enderle, T., Ogletree, D.F., Chemla, D.S., Selvin, P.R. and Weiss, S. (1996) Proc Natl Acad Sci U S A 93, 6264-8.	
	CR	Ha, T., Rasnik, I., Cheng, W., Babcock, H.P., Gauss, G.H., Lohman, T.M. and Chu, S. (2002) Nature 419, 638-41.	
	CS	Ha, T., Ting, A.Y., Liang, J., Caldwell, W.B., Deniz, A.A., Chemla, D.S., Schultz, P.G. and Weiss, S. (1999) Proc Natl Acad Sci U S A 96, 893-8.	
	CT	Ha, T., Zhuang, X., Kim, H., Orr, J., Williamson, J. and Chu, S. (1999) Proc Natl Acad Sci U S A 96, 9077-9082.	
	CU	Hazbun, T.R. and Fields, S. (2001) Proc Natl Acad Sci U S A 98, 4277-8.	
	CV	Heinze, K.G., Koltermann, A. and Schwille, P. (2000) Proceedings of the National Academy of Sciences of the United States of America 97, 10377-82.	
	CW	Heyduk, E., Fei, Y. and Heyduk, T. (2003) Comb Chem High Throughput Screen 6, 347-54.	
	CX	Heyduk, E., Knoll, E. and Heyduk, T. (2003) Anal Biochem 316, 1-10.	
	CY	Heyduk, T. and Heyduk, E. (2002) Nat Biotechnol 20, 171-6.	
	CZ	Hoch, J.A. and T.J. Silhavy, eds. Two-Component Signal Transduction. 1995, ASM Press: Washington, D.C.	
	CA1	Holden, J.A. (2001) Curr Mod Chem Anti-Canc Agents 1, 1-25.	
	CB1	Ito, T., Chiba, T., Ozawa, R., Yoshida, M., Hattori, M. and Sakaki, Y. (2001) Proc Natl Acad Sci U S A 98, 4569-74.	
✓	CC1	Kapanadis, A., et al. Single-Molecule Analysis of Sigma Factor Release. Annual Biophysical Society Meeting, San Antonio, 2003.	
/FLE/	CD1	Kapanadis, A.N., et al. Fluorescence-aided molecule sorting: Analysis of structure	



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			First Named Inventor	Shimon Weiss	
			Art Unit	2877	
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Sheet	3	of	5	Attorney Docket Number	58086-226455

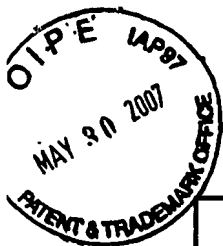
		and interactions by alternating-laser excitation of single molecules. PNAS 2004, 101:24 8936-8941.	
/FLE/	CE1	Kapanidis, A.N., and S. Weiss, Fluorescent probes and bioconjugation chemistries for single-molecule fluorescence analysis of biomolecules. Journal of Chemical Physics, 2002. 117(24): p. 10953-10964.	
	CF1	Kapanidis, A.N., Ebright, Y.W. and Ebright, R.H. (2001) J Am Chem Soc 123, 12123-5.	
	CG1	Kask, P. et al. (2000) Biophys J 78, 1703-13.	
	CH1	Kask, P., Palo, K., Ullmann, D. and Gall, K. (1999) Proc Natl Acad Sci U S A 96, 13756-61.	
	CI1	Kettman JR, F.J., Lefkovits L, Proteome, transcriptome and genome: top down or bottom up analysis? Biomol Eng., 2001. 18(5): p. 207-12.	
	CJ1	Kinjo, M. and Rigler, R (1995) Nucleic Acids Res 23, 1795-9.	
	CK1	Ko, D.S., Sauer, M., Nord, S., Müller, R. and Wolfrum, J. (1997) Chemical Physics 269, 54-58.	
	CL1	Kohl, T., Heinze, K.G., Kuhlemann, R., Koltermann, A. and Schwille, P. (2002) Proc Natl Acad Sci U S A 99, 12161-6.	
	CM1	Kolasa IK, L.T., Wierchowski KL., Effect of A(n) tracts within the UP element proximal subsite of a model promoter on kinetics of open. complex formation by Escherichia coli RNA polymerase. Acta Biochim Pol., 2002. 49(3): p. 659-69.	
	CN1	Lacoste, T.D., Michalet, X., Pinaud, F., Chemla, D.S., Alivisatos, A.P. and Weiss, S. (2000) Proc Natl Acad Sci U S A 97, 9461-6.	
	CO1	Laurence, T.A. and S. Weiss, ANALYTICAL CHEMISTRY: How to Detect Weak Pairs. Science, 2003. 299(5607): p. 667-668.	
	CP1	Lee, J., et al., Phosphorylation-Induced Signal Propagation in the Response Regulator NtrC J. Bacteriol., 2000. 182(18): p. 5188-5195.	
	CQ1	Lee, L.G. et al. (1997) Nucleic Acids Res 25, 2816-22.	
	CR1	Legrain, P. and Selig, L. (2000) FEBS Lett 480, 32-6.	
	CS1	Levene, M.J., Korlach, J., Turner, S.W., Foquet, M., Craighead, H.G. and Webb, W.W. (2003) Science 299, 682-6.	
	CT1	Liu, J. and Lu, Y. (2002) J. Am. Chem. Soc. 124,15208-16.	
	CU1	Lorenz, M., et al., Global structure similarities of intact and nicked DNA complexed with IHF measured in solution by fluorescence resonance energy transfer. Nucl. Acids. Res., 1999. 27(23): p. 4619-4625.	
	CV1	Magde, D., Elson, E. and Webb, W.W. (1972) Physical Review Letters 29, 705-8.	
	CW1	Mendelsohn, A.R. and Brent, R (1999) Science 284, 1948-50.	
	CX1	Nooren, I.M.A. and J.M. Thornton, NEW EMBO MEMBER'S REVIEW: Diversity of protein protein interactions. EMBO J., 2003. 22(14): p. 3486-3492.	
	CY1	Oliver, S. (2000) Nature 403, 601-3.	
	CZ1	Palo, K., Mets, U., Jäger, S., Kask, P. and Gall, K. (2000) Biophysical Journal 79, 2858-66.	
✓	CA2	Pandolfi, P.P. (2001) Oncogene 20, 3116-27.	
/FLE/	CB2	Porter SC, N.A., Wedel AB, Kustu S., Oligomerization of NTRC at the glnA Enhancer is required for transcriptional activation. Genes Dev., 1993. 7(11): p. 2258-73.	



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		First Named Inventor	Shimon Weiss		
		Art Unit	2877		
		Examiner Name	Not Yet Assigned		
Sheet	4	of	5	Attorney Docket Number	58086-226455

/FLE/	CC2	Qian, H. and Elson, E.L. (1990) Biophysical Journal 57,375-80.	
	CD2	Rauer, B., Neumann, E., Widengren, J. and Rigler, R. (1996) Biophys Chem 58,3-12.	
	CE2	Rippe, K., et al., Transcriptional Activation via DNA-looping: Visualization of Intermediates in the Activation Pathway of E. coli RNA Polymerase. [sigma] 54Holoenzyme by Scanning Force Microscopy. Journal of Molecular Biology, 1997. 270(2): p. 125-138.	
	CF2	Rippe, K., N. Mucke, and A. Schulz, Association States of the Transcription Activator Protein NtrC from E. coli Determined by Analytical Ultracentrifugation. Journal of Molecular Biology, 1998. 278(5): p. 915-933.	
	CG2	Rippe, K., Simultaneous Binding of Two DNA Duplexes to the NtrC-Enhancer Complex Studied by Two-Color Cross-Correlation Spectroscopy. Biochemistry, 2000. 39(9): p. 2131-2139.	
	CH2	Rombel, I, et al., MgATP Binding and Hydrolysis Determinants of NtrC, a Bacterial Enhancer-Binding Protein. J. Bacteriol., 1999. 181(15): p. 4628-4638.	
	CI2	Rothwell, P.J. et al. (2003) Proc Natl Acad Sci U S A 100, 1655-60.	
	CJ2	Santero E, H.T., North AK, Berger DK, Porter SC, Kustu S., Role of integration host factor in stimulating transcription from the sigma 54-dependent nifH promoter. J Mol Biol., 1992. 227(3): p. 602-20.	
	CK2	Schuler, B. and L.K. Pannell, Specific Labeling of Polypeptides at Amino-Terminal Cysteine Residues Using Cy5-benzyl Thioester. Bioconjugate Chem., 2002. 13(5); p. 1039-1043.	
	CL2	Schuler, B., Lipman, E.A. and Eaton, W.A. (2002) Nature 419, 743-7.	
	CM2	Schulz, A., et al., Scanning Force Microscopy of Escherichia coli RNA Polymerase. [sigma] 54Holoenzyme Complexes with DNA in Buffer and in Air., Journal of Molecular Biology, 1998. 283(4): p. 821-836.	
	CN2	Schwille, P., Meyer-Almes, F.J. and Rigler, R (1997) Biophysical Journal 72, 1878-86.	
	CO2	Schwille, P., Oehlenschlaeger, F. and Walter, N.G. (1996) Biochemistry 35, 10182-93.	
	CP2	Selvin, P.R. (2000) Nat Struct Biol 7, 730-4.	
	CQ2	Sevenich, F., et al., DNA binding and oligomerization of NtrC studied by fluorescence anisotropy and fluorescence correlation spectroscopy. Nucl. Acids. Res., 1998. 26(6): p. 1373-1381.	
	CR2	Su, W., et al., DNA-Looping and Enhancer Activity: Association Between DNA-Bound NtrC Activator and RNA Polymerase at the Bacterial glnA Promoter. PNAS, 1990. 87(14): p. 5504-5508.	
	CS2	Tintut, Y., J.T. Wang, and J.D. Gralla, Abortive Cycling and the Release of Polymerase for Elongation at the [MAGE] 54-dependent glnAp2 Promoter. J. Biol. Chem., 1995. 270(41): p. 24392-24398.	
	CT2	Uetz, P. (2002) Curr Opin Chem Biol 6, 57-62.	
	CU2	Uetz, P. et al. (2000) Nature 403, 623-7.	
↓	CV2	Wagner, R., Transcription Regulation in Prokaryotes. 2000, Oxford: Oxford University Press.	
/FLE/	CW2	Wang, J.T. and J.D. Gralla, The Transcription Initiation Pathway of Sigma 54Mutants That Bypass the Enhancer Protein Requirement. IMPLICATIONS FOR THE	



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		MECHANISM OF ACTIVATION. J. Biol. Chem., 1996. 271(51): p. 32707-32713.	
/FLE/	CX2	Wyman, C., et al., Unusual Oligomerization Required for Activity of NtrC, a Bacterial Enhancer-Binding Protein. Science, 1997. 275(5306): p. 1658-1661.	
/FLE/	CY2	Zhuang, X., Bartley, L.E., Babcock, H.P., Russell, R., Ha, T., Herschlag, D. and Chu, S. (2000) Science 288, 2048-51.	
/FLE/	CZ2	Zhuang, X., Kim, H., Pereira, M.J., Babcock, H.P., Walter, N.G. and Chu, S. (2002) Science 296, 1473-6.	

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/FLE/	AA	4,162,851 A	07/31/1979	WADA	
	AB	5,233,197 A	08/03/1993	BOWMAN et al.	
↓	AC	5,149,972 A	09/22/1992	FAY et al.	
	AD	6,444,476 B1	09/03/2002	MORGAN	
/FLE/	AE	2003/059811 A1	03/27/2003	DJABALLAH et al.	
	AF				
	AG				
	AH				
	AI				
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/FLE	BA	DE 102 10 737 A1	3/20/2003	GNOTHIS HOLDING SA		
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